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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,359	01/30/2004	Wilson H. Onimus	01-2628A	7917
24114	7590 06/19/2006		EXAM	INER
LYONDELL CHEMICAL COMPANY 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073		SAMPLE,	SAMPLE, DAVID R	
			ART UNIT	PAPER NUMBER
			1755	

DATE MAILED: 06/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/769,359	ONIMUS ET AL.		
Office Action Summary	Examiner	Art Unit		
	David Sample	1755		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  rill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	L. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	•			
<ol> <li>Responsive to communication(s) filed on 30 Ma</li> <li>This action is FINAL.</li> <li>Since this application is in condition for allowan closed in accordance with the practice under Exercise.</li> </ol>	action is non-final. ace except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-7 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or  Application Papers  9) ☐ The specification is objected to by the Examiner	election requirement.			
10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of th	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1)	4) Interview Summary	(PTO-413)		
Notice of Naftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 20040503	Paper No(s)/Mail Da			

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### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Carati et al. (US 2003/0083199).

Carati et al. discloses a method of making a catalyst in which TS-1 having a particle size of 0.3 µm is spray dried. See paragraphs [0055], [0063] and [0065].

It is noted that the present claims refer "reducing the average diameter" of the TS-1 particles. This recitation is deemed to be met by the reference in the sense that the TS-1 is synthesized to have a particle size of less than 10 microns.

The recitations of instant claim 4 can be found in the reference in paragraph [0014].

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carati et al. (US 2003/0083190) as applied to claim 1 above, and further in view of Sato et al. (JP 04-352771).

As noted above, Carati et al. discloses a method of making a catalyst which anticipates claim 1. The reference fails to disclose the epoxidation of olefins with the catalyst.

Sato et al. discloses that TS-1 zeolites containing palladium are useful for the epoxidation of olefins in the presence of hydrogen peroxide. See Claim 1 and practical example 1, page 6 of the translation of Sato et al.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added palladium to the catalyst of Carati et al. and employed the catalyst in the epoxidation of olefins in the presence of hydrogen peroxide because Sato et al. discloses that TS-1 catalyst containing palladium are useful in such reactions.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Sample whose telephone number is (571)272-1376. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (572)272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Sample
Primary Examiner

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